

Appendix 6 - Preliminary Cost Estimate

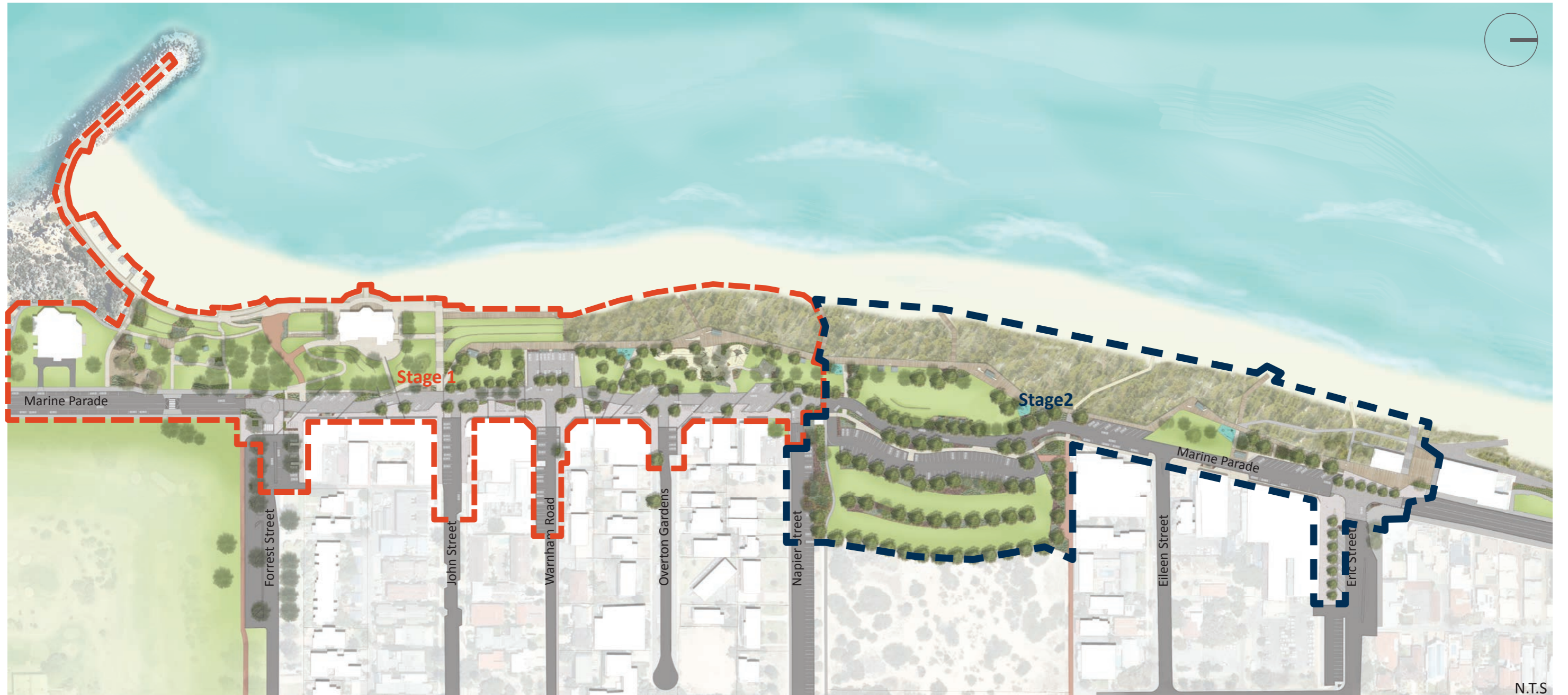
STAGE 1 - FORREST TO NAPIER STREET					
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1.00	Preliminaries				
1.01	Site establishment, insurances, set out, etc.	item		15%	\$1,461,893
2.00	Demolition				
2.01	Remove existing kerb	m	3,237	\$2	\$6,474
2.02	Remove existing road pavement	m ²	14,046	\$5	\$70,230
2.03	Remove existing footpath	m ²	9,895	\$5	\$49,475
2.04	Remove all existing furniture, fences, signage etc	PS	1	\$50,000	\$50,000
2.05	Store topsoil and respread	m ²	16,548	\$2	\$33,096
3.00	Earthworks				
3.01	Bulk earthworks	PS	1	\$100,000	\$100,000
3.02	Detailed earthworks	m ²	27,711	\$10	\$277,110
4.00	Pavements				
4.01	Segmental paving + 200mm crushed rock base course	m ²	4,559	\$250	\$1,139,750
4.02	Segmental paving + 100mm crushed rock base course	m ²	3,672	\$220	\$807,840
4.03	Asphalt seal (black) + 100mm crushed rock base course	m ²	5,205	\$65	\$338,325
4.04	Asphalt seal (red) + 100mm crushed rock base course	m ²	418	\$70	\$29,260
4.05	Concrete paving - exposed aggregate finish	m ²	4,752	\$110	\$522,720
4.06	Concrete paving - broomed finish	m ²	1,638	\$80	\$131,040
4.07	Semi-mountable kerb	m	1,170	\$32	\$37,440
4.08	Flush kerb	m	1,233	\$29	\$35,757
4.09	Parking bay linemarking	PS	1	\$5,000	\$5,000
5.00	Drainage				
5.01	Strip drain - trafficable	m	380	\$800	\$304,000
5.02	Pit & pipe network	PS	1	\$75,000	\$75,000
6.00	Decking				
6.01	Boardwalk / deck	m	2,102	\$800	\$1,681,600
7.00	Walls & steps				
7.01	Limestone retaining wall - 400mm high	m	1,137	\$250	\$284,250
7.02	Point and repair existing retaining walls	PS	1	\$50,000	\$50,000
7.03	Concrete steps	m	511	\$350	\$178,850
8.00	Furniture				
8.01	Handrails	m ²	247	\$900	\$222,300
8.02	Bollards	item	40	\$760	\$30,400
8.03	Barbecues	m ²	3	\$14,000	\$42,000
8.04	Bench seats - proprietary	m ²	9	\$3,500	\$31,500
8.05	Bench seats - custom	m ²	3	\$10,000	\$30,000
8.06	Picnic tables	m ²	12	\$5,000	\$60,000
8.07	Litter bins	m ²	12	\$2,500	\$30,000
8.08	Bicycle racks	m ²	30	\$800	\$24,000
8.09	Shade Structures to boardwalk & parklands	item	15	\$25,000	\$375,000
8.10	Shade Structures to beach	item	6	\$18,000	\$108,000
8.11	Drink fountains (inc plumbing)	m ²	5	\$8,000	\$40,000
8.12	Beach showers (inc plumbing)	m ²	6	\$8,000	\$48,000
9.00	Lighting & Electrical				
9.01	Pole top street lights	item	10	\$10,000	\$100,000
9.02	Pole top POS lights	item	40	\$15,000	\$600,000
9.03	Feature uplighting	item	50	\$2,000	\$100,000
9.04	Electrical connections	PS	1	\$300,000	\$300,000
10.00	Playground & Fitness Stations				
10.01	Sand soffitfall	m ²	950	\$30	\$28,500
10.02	Rubber soffitfall	m ²	65	\$210	\$13,650
10.03	Mulch soffitfall	m ²	520	\$24	\$12,480
10.04	Shade sails	item	1	\$60,000	\$60,000
10.05	Playground equipment	m ²	1	\$500,000	\$500,000
10.06	Fitness equipment	m ²	8	\$2,000	\$16,000
11.00	Softworks				
11.01	100 Litre trees	ea	75	\$350	\$26,250
11.02	Roll-on turf	m ²	13,365	\$10	\$133,650
11.03	Topsoil to all turfed areas	m ²	13,365	\$3	\$40,095
11.04	Mass planting (4 x 130mm pots per sqm)	m ²	3,183	\$34	\$108,222
11.05	Topsoil to all planted areas	m ²	3,183	\$5	\$15,915
11.06	Organic mulch to all planted areas	m ²	3,183	\$9	\$28,647
12.00	Irrigation				
12.01	Irrigation to planted areas	m ²	13,365	\$15	\$200,475
12.02	Irrigation to turf areas	m ²	13,365	\$10	\$133,650
12.03	Water source	PS	1	\$80,000	\$80,000
13.00	Other				
13.01	Public art & interpretive elements	PS	1	\$500,000	\$500,000
13.02	New public amenities building	PS	0	\$400,000	\$0
14.00	Contingencies				
14.01	Contingencies	PS		25%	\$2,801,961
Subtotal (exc GST)					\$14,509,805

STAGE 2 - NAPIER TO ERIC STREET					
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1.00	Preliminaries				
1.01	Site establishment, insurances, set out, etc.	item		15.00%	\$1,461,893
2.00	Demolition				
2.01	Remove existing kerb	m	3,633	\$2	\$7,266
2.02	Remove existing road pavement	m ²	18,146	\$5	\$90,730
2.03	Remove existing footpath	m ²	4,026	\$5	\$20,130
2.04	Remove all existing furniture, fences, signage etc	PS	1	\$50,000	\$50,000
2.05	Store topsoil and respread	m ²	15,110	\$2	\$30,220
3.00	Earthworks				
3.01	Bulk earthworks	PS	1	\$100,000	\$100,000
3.02	Detailed earthworks	m ²	31,079	\$10	\$310,790
4.00	Pavements				
4.01	Segmental paving + 200mm crushed rock base course	m ²	752	\$250	\$188,000
4.02	Segmental paving + 100mm crushed rock base course	m ²	1,314	\$220	\$289,080
4.03	Asphalt seal (black) + 100mm crushed rock base course	m ²	8,881	\$65	\$577,265
4.04	Asphalt seal (red) + 100mm crushed rock base course	m ²	999	\$70	\$69,930
4.05	Concrete paving - exposed aggregate finish	m ²	1,335	\$110	\$146,850
4.06	Concrete paving - broomed finish	m ²	1,200	\$80	\$96,000
4.07	Semi-mountable kerb	m	1,794	\$32	\$57,408
4.08	Flush kerb	m	510	\$29	\$14,790
4.09	Parking bay linemarking	PS	1	\$5,000	\$5,000
5.00	Drainage				
5.01	Strip drain - trafficable	m	50	\$800	\$40,000
5.02	Pit & pipe network	PS	1	\$75,000	\$75,000
6.00	Decking				
6.01	Boardwalk / deck	m	2,604	\$800	\$2,083,200
7.00	Walls & steps				
7.01	Limestone retaining wall - 400mm high	m	160	\$250	\$40,000
7.02	Point and repair existing retaining walls	PS	0	\$50,000	\$0
7.03	Concrete steps	m	300	\$350	\$105,000
8.00	Furniture				
8.01	Handrails	m ²	407	\$900	\$366,300
8.02	Bollards	item	32	\$760	\$24,320
8.03	Barbecues	m ²	2	\$14,000	\$28,000
8.04	Bench seats - proprietary	m ²	10	\$3,500	\$35,000
8.05	Bench seats - custom	m ²	2	\$10,000	\$20,000
8.06	Picnic tables	m ²	6	\$5,000	\$30,000
8.07	Litter bins	m ²	6	\$2,500	\$15,000
8.08	Bicycle racks	m ²	20	\$800	\$16,000
8.09	Shade Structures to boardwalk & parklands	item	6	\$25,000	\$150,000
8.10	Shade Structures to beach	item	0	\$18,000	\$0
8.11	Drink fountains (inc plumbing)	m ²	2	\$8,000	\$16,000
8.12	Beach showers (inc plumbing)	m ²	5	\$8,000	\$40,000
9.00	Lighting & Electrical				
9.01	Pole top street lights	ea	4	\$10,000	\$40,000
9.02	Pole top POS lights	ea	20	\$15,000	\$300,000
9.03	Feature uplighting	ea	30	\$2,000	\$60,000
9.04	Electrical connections	PS	1	\$200,000	\$200,000
10.00	Playground & Fitness Stations				
10.01	Sand soffitfall	m ²	0	\$30	\$0
10.02	Rubber soffitfall	m ²	188	\$210	\$39,480
10.03	Mulch soffitfall	m ²	0	\$24	\$0
10.04	Shade sails	item	0	\$60,000	\$0
10.05	Playground equipment	m ²	0	\$500,000	\$0
10.06	Fitness equipment	m ²	6	\$2,000	\$12,000
11.00	Softworks				
11.01	100 Litre trees	ea	80	\$350	\$28,000
11.02	Roll-on turf	m ²	10,765	\$10	\$107,650
11.03	Topsoil to all turfed areas	m ²	10,765	\$3	\$32,295
11.04	Mass planting (4 x 130mm pots per sqm)	m ²	4,345	\$34	\$147,730
11.05	Topsoil to all planted areas	m ²	4,345	\$5	\$21,725
11.06	Organic mulch to all planted areas	m ²	4,345	\$9	\$39,105
12.00	Irrigation				
12.01	Irrigation to planted areas	m ²	4,345	\$15	\$65,175
12.02	Irrigation to turf areas	m ²	10,765	\$10	\$107,650
12.03	Water source	PS	0	\$80,000	\$0
13.00	Other				
13.01	Public art & interpretive elements	PS	1	\$300,000	\$300,000
13.02	New public amenities building	PS	1	\$400,000	\$400,000
14.00	Contingencies				
14.01	Contingencies	PS		25%	\$2,801,961
Subtotal (exc GST)					\$11,301,943

This preliminary cost estimate is indicative and should be reassessed once detailed design has been completed. We accept no liability or responsibility for interpretations made or use of the information for any other purpose. It should also be noted that the estimate may be affected by a number of factors outside the control of Cardno (WA) Pty Ltd and we cannot warrant the accuracy of the information provided and recommend a further review of the information contained herein be undertaken by the client prior to use.

No allowance has been made for fees and charges relating to project management, detailed design and certification fees.

No allowance has been made for service relocations or major drainage infrastructure





Perth

11 Harvest Terrace
West Perth WA 6005

T 08 9273 3888

F 08 9388 3831

PO Box 447,
West Perth WA 6872

E landscape@cardno.com.au

W www.cardno.com.au/landscape

